

ICS第二次书面作业

3.60

```
long loop(long x, int n) {
    long result = 0;

    long mask;

    for (mask = 1; mask; mask <= n) {
        result |= x & mask;
    }

    return result;
}
```

3.62

```
typedef enum {MODE_A, MODE_B, MODE_C, MODE_D, MODE_E} mode_t;

long switch3(long *p1, long *p2, mode_t action) {
    long result = 0;

    switch(action) {
        case MODE_A:
            result = *p2;
            *p2 = *p1;
            break;

        case MODE_B:
            result = *p1 & *p2;
            *p1 = result;
            break;

        case MODE_C:
            *p1 = 59;
            result = *p2;
            break;

        case MODE_D:
            *p1 = *p2;
            result = 27;
            break;

        case MODE_E:
            result = 27;
            break;

        default:
            result = 12;
            break;
    }
}
```

```
    return result;
}
```

3.64

- A

```
#define R 7

#define S 5

#define T 13

long A[R][S][T];

long store_ele(long i, long j, long k, long *dest) {
    *dest = A[i][j][k];
    return sizeof(A);
}
```

- B

$$T \quad D[R][S][T]$$
$$\&D[i][j][k] = x_A + L(S \bullet T \bullet i + T \bullet j + k)$$